



CERRO COPPER PRODUCTS CO.

P.O. Box 66800
St. Louis, MO 63166-6800
618/337-6000

E.1

9/21/90

144737

September 21, 1990

Mr. Thomas Thompson
Pretreatment Coordinator
Horner & Shifrin
5200 Oakland Avenue
St. Louis, MO 63110

Mr. George R. Schillinger
General Manager
American Bottoms Regional
Wastewater Treatment Facility
One American Bottoms Road
Sauget, IL 62201

RE: Request for Discharge Permit Modification

Dear Messrs. Thompson and Schillinger:

Cerro has recently signed a Consent Decree entered into with the United States of America to settle and fully resolve the pending enforcement action captioned United States of America v. Cerro Copper Products Company, Docket No. 89-5083. A copy of the Consent Decree is enclosed. Cerro is awaiting notice that the representatives of the United States have also signed the Consent Decree. It is expected that the United States' representatives will sign the Consent Decree before the end of this month.

Because the enclosed Consent Decree contains compliance schedules, monitoring, and reporting requirements which either are not contained in or differ from the requirements of Cerro's existing Village of Sauget Discharge Permit, Cerro is hereby requesting that its existing Discharge Permit be modified consistent with the provisions of the enclosed Consent Decree. To that end, and for your ease of reference, Cerro also has enclosed a copy of its existing Discharge Permit which has been revised to show the specific modifications Cerro is herein requesting be made. For consistency and clarity, the language of Cerro's suggested modifications has been taken virtually verbatim from the relevant provisions of the enclosed Consent Decree.

By requesting the instant modifications now, Cerro is attempting to provide the Village and its Pretreatment Coordinator sufficient time to consider and to accept the requested modifications prior to the United States' execution of the Consent Decree. As provided in Paragraph 51 of the enclosed Consent Decree, the dates and deadlines specified therein will be effective upon its execution, regardless of the actual date on which the Court subsequently enters the Decree. Accordingly, Cerro wants to ensure that both its existing Discharge Permit and the Consent Decree requirements are consistent as soon as the Consent Decree is effective.



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CERRO COPPER PRODUCTS CO.

Mr. Thomas Thompson
Mr. George R. Schillinger
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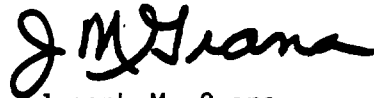
Cerro also requests that until the Consent Decree has been signed by the United States, it should be considered a confidential document. Cerro is releasing it to your care in order to expedite the issuance of the Permit.

As of September 1, 1990 the Administrative Orders terminated; consequently, the sampling requirements of the Orders also terminate. Cerro will discontinue sampling in September of the categorical wastewater streams, but will sample the East and West outfalls for those parameters specified by ordinance: mercury, cyanide and flow.

Please call me if you have any questions, or wish to discuss this matter further.

Very truly yours,

CERRO COPPER PRODUCTS CO.



Joseph M. Grana
Manager of Environmental
and Energy Affairs

JMG/ge

Encl.

cc: P. Tandler
S. Franzetti
C. Schafer
File

VILLAGE OF SAUGET
AMERICAN BOTTOMS REGIONAL WASTEWATER DISCHARGE PERMIT

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(A Revised Drawing is being Prepared)	

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B. Monitoring Requirements

~~Copper Forming Limits at East Outfall (12-G):~~
 for Main Tube Mill (Sampling Location 50):

<u>Pollutant</u>	<u>Daily Maximum Limit lbs/day</u>	<u>Monthly Average Limit lbs/day</u>
Copper	1.395	0.734
Chromium	0.330	0.131
Lead	0.109	0.093
Nickel	1.409	0.932
Zinc	1.071	0.447
Total Toxic Organics *	0.476	0.249
Oil and Grease	14.692	8.814

~~Compliance with the above limits will be determined by measurement of pollutant discharge at both the East Outfall and manhole 8A. The value resulting from the subtraction of the value at 8A from the value at the East Outfall will be considered the Copper Forming discharge subject to the above limitations. In the event that the value from 8A exceeds the East Outfall, the entire discharge at the East Outfall will be attributed to 8A for that monitoring period.~~
 Sampling Location 50

~~Copper Forming Limits at Lift Station, 38:~~
 for the Piercing Mill, Bldg 80 (Sampling Location 40):

<u>Pollutant</u>	<u>Daily Maximum Limit lbs/day</u>	<u>Monthly Average Limit lbs/day</u>
Copper	0.338	0.178
Chromium	0.078	0.032
Lead	0.026	0.023
Nickel	0.341	0.226
Zinc	0.259	0.108
Total Toxic Organics *	0.115	0.060
Oil and Grease	3.558	2.134

~~Compliance with the above limits will be determined by measurements of pollutant discharge at the lift station, 38.~~
 Sampling Location 40.

~~Secondary Copper Limits at Manhole 8A:~~
 (Sampling Location 60):

Insert 1 → ~~There shall be no discharge of process wastewater pollutants to the POTW.~~

~~Compliance with this limit will be determined by measurement of pollutant discharge at manhole 8A.~~
 Sampling Location 60.

* As an alternative to monitoring for TTO, Cerro may elect to monitor for Oil & Grease. Complying with the Oil & Grease limit shall be the equivalent of complying with the TTO limit

¹
Metal Molding Copper Casting Limits at ~~Manhole 30~~ - Bldg 19 WWTF (Sampling Location 30):

Insert 2

1. ~~The MMC pretreatment facility discharges (as a batch operation) wastewater from two days of production. Therefore, each batch is subject to the following effluent limitations, representing limitations based on two days of production. These limitations do not apply if any other procedure than discharge of two days of production occurs. Cerro must inform the USEPA if other forms of discharge will occur.~~
2. ~~The average of all the batch discharges sampled during the month must meet the monthly average limit (based on lbs/day, not lbs/batch).~~

<u>Pollutant</u>	<u>Batch Discharge Limit</u> <u>lbs/batch</u>	<u>Monthly Average Limit</u> <u>lbs/day</u>
Copper	3.026	0.825
Lead	2.086	0.512
Zinc	2.990	0.570
Total Toxic Organics	0.450	0.074
Oil and Grease	5.584	0.978
Phenols (4AAP)	0.170	0.029

Compliance with the above limits will be determined by measurement of pollutant discharges at ~~manhole 30~~.
Sampling Location 30.

~~Alternate Limits at Combined Monitoring Location (West Outfall):~~

~~After October 31, 1988, Cerro Copper may choose to use a combined monitoring point for compliance with Copper Forming wastewater from the lift station, 3B, and Copper Casting wastewater from manhole 30. Cerro shall give the Village advance written notice no later than fifteen (15) calendar days before exercising its rights under this paragraph. Should Cerro decide to use this combined point, the following limits will apply at the West Outfall. Cerro must be able to continue to meet the appropriate limits at 30 and 3B if combined monitoring occurs. The combined monitoring point can only be used with the Combined Wastestream Formula (CWF). Since chromium, nickel, and phenols are not limited by Copper Forming, information about the concentration in the Copper Forming wastestream must be used to determine the correct unregulated values for those three pollutants to use in the CWF. Should any of these values result in a limit below detection, the CWF cannot be used to derive alternate limits.~~

<u>Pollutant</u>	<u>Daily Maximum Limit</u> <u>lbs/day</u>	<u>Monthly Average Limit</u> <u>lbs/day</u>
Copper	1.851	1.003
Chromium	(1)	(1)
Lead	1.21	0.544
Nickel	(1)	(1)
Zinc	1.759	0.678
Total Toxic Organics	0.340	0.134
Oil and Grease	6.495	3.112
Phenols (AAP)	(1)	(1)

~~Compliance with the above limits will be determined by measurement of pollutant discharge at the West Outfall.~~

State Limitations at East and West Outfalls:

<u>Pollutant</u>	<u>Daily Max. Limit</u> <u>mg/l</u>	<u>Monthly Avg. Limit</u> <u>mg/l</u>	<u>Max. Grab</u> <u>mg/l</u>
Cyanide¹	--	--	10.0
Mercury	0.001	0.0005	0.0025

* ~~To be determined by use of CWF and information on the background concentration in the Copper Forming wastestream.~~

¹ Provided any sample tested shall not release more than 2 mg/L of cyanide when tested at a pH of 4.5 and at a temperature of 66 C (150 F) for a period of 30 minutes.

C. Monitoring Schedule

INSERT 3

	<u>Units</u>		<u>Type(1)</u>			<u>Location/Frequency(2)(3)</u>				
	MGD	mg/l	lbs/d	Meter	Composite	Grab	WOF	EOF	8A	3B 30
Flow	X			X			M	M	M	M Q
Mercury		X			X		M	M		
Cyanide		X				X	M	M		
Copper			X		X		M		M	M Q
Lead			X		X		M		M	M Q
Zinc			X		X		M		M	M Q
Nickel			X		X		M		M	M
Chromium			X		X		M		M	M
TIQ's										
Volatile		X				X	M		M	M Q
Semi-Volatile		X			X		M		M	M Q
Non-Volatile		X			X		M		M	M Q
Phenols (4AAP)		X				X				Q
Oil and Grease (4)		X				X	M		M	M Q

~~1 - All parameters regulated at Manhole 30 shall be analyzed from a grab sample during batch discharge.~~

~~2 - M - Monthly
Q - Quarterly~~

~~3 - WOF - West Outfall
EOF - East Outfall~~

~~4 - Alternative for TIQs (See Section 2A3)~~

PART 4 - COMPLIANCE SCHEDULE

A. General:

Authority Citation: Section 4.2.5, Village of Sauget Pretreatment Ordinance No. 567.

Permit No. 108

Industry Name: Cerro Copper Products Company

B. Partial Compliance Schedule -- Copper Forming:

INSERT 4 → ~~Compliance schedules for Copper Forming are the subject of pending litigation between USEPA and Cerro. Cerro shall, on a monthly basis, report the compliance status and progress schedule regarding this litigation.~~

INSERT 5 → C. Compliance Schedule Reporting: ~~No later than 14 days following each date in the above schedule, the permittee shall submit to the POTW an incremental compliance report including, at a minimum, whether or not it complied with the increment of progress to be met on such date and, if not, the date on which it expects to comply with the increment of progress, the reasons for delay, and the steps being taken to return the project to the schedule established.~~

PART 4 - COMPLIANCE SCHEDULE

A. General:

Authority Citation: Section 4.2.5, Village of Sauget Pretreatment Ordinance No. 567.

Permit No. 108

Industry Name: Cerro Copper Products Company

B. Partial Compliance Schedule -- Secondary Copper:

Insert 6 → ~~Compliance schedules for Secondary Copper are the subject of pending litigation between USEPA and Cerro. Cerro shall, on a monthly basis, report the compliance status and progress schedule regarding the litigation.~~

C. Compliance Schedule Reporting: ~~No later than 14 days following each date in the above schedule, the permittee shall submit to the POTW an incremental compliance report including, at a minimum, whether or not it complied with the increment of progress to be met on such date and, if not, the date on which it expects to comply with the increment of progress, the reasons for delay, and the steps being taken to return the project to the schedule established.~~

INSERT 7 →

PART 5 - Consent Decree

As of September 1, 1990, Sections 2B & 2C shall supersede U.S. EPA's Administrative Orders Nos. V-W-86-AO-41, V-W-87-AO-42, and V-W-88-AO-01 . As of the date of entry of the Consent Decree attached, the Administrative Orders Nos. V-W-86-AO-41, V-W-87-AO-42, and V-W-88-AO-01 shall terminate.

In the event of any conflict between the compliance, monitoring and reporting provisions of the Consent Decree and of the Permit, the provisions of the Consent Decree shall apply and shall be deemed to be incorporated into and made a part of this Permit.

INSERT 1

As of March 1, 1991, Cerro shall not discharge any process wastewater pollutants from any operations subject to 40 C.F.R. Part 421 and shall comply by recycling and reusing all wastewater flows that are subject to 40 C.F.R. Part 421, except such wastewater may be transferred to the Metal Molding and Casting ("MMC") portion of the facility in accordance with the paragraphs below.

Cerro may transfer process wastewater containing pollutants from the anode furnace air pollution control scrubber to the MMC portion of the facility only if all of the following conditions are met:

a. Cerro shall not transfer more than a monthly average of 10,000 gallons per day of anode furnace air pollution control scrubber wastewater for use as make-up water in the MMC portion of the Cerro facility. Cerro shall manage all wastewater transferred from the anode furnace air pollution control scrubber as wastewater regulated by the National Categorical Pretreatment Standards which applies to the MMC portion of the facility.

b. Cerro shall not transfer any anode furnace air pollution control scrubber wastewater to the MMC portion of the facility unless it complies with the following limits:

Pollutant	Limit(monthly average) ¹
Copper	2 mg/l
Cadmium	2 mg/l
Lead	2 mg/l
Zinc	6 mg/l

1. For purposes of this permit, "monthly average" is defined as the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

c. Cerro shall reuse (e.g., through sale to a reclaimer) or recycle, on or off-site, all solid residuals or sludge generated from the MMC wastewater treatment portion of the facility, but in no event shall Cerro land dispose any such solid residuals or sludge generated from the MMC portion of the facility.

INSERT 2

Metal Molding & Casting Limits for Building 19

<u>Pollutant</u>	Daily Maximum Limit <u>lbs/day</u>	Monthly Average Limit <u>lbs/day</u>
Copper	1.513	0.825
Lead	1.043	0.512
Zinc	1.495	0.570
Total Toxic Organics	0.225	0.074
Oil & Grease*	2.937	0.978
Phenols (4AAP)	0.085	0.029

*As an alternative to monitoring for TTO, Cerro may elect to monitor for Oil & Grease. Compling with the Oil & Grease limit shall be equivalent of compling with the TTO limit.

If Cerro discharges batches of wastewater which represent more than one day of operation, then the applicable limit for such discharge shall be multiplied by the number of days (calculated per quarter day) of production which generated the wastewater. Regardless of the number of days of production, Cerro must comply with the monthly average limitations set forth above without any adjustment.

INSERT 3

C. Monitoring Schedule:

Cerro shall perform the monitoring, sampling, analysis and reporting required by 40 C.F.R. 403.12(e) every other month at the location, frequency and methods described in table below and shall be representative of daily operations.

Parameter	Units			Sample Type(a)			Location(b)/Frequency					
	MGD	mg/l	lbs/d	Meter	Composite	Grab	WOF	EOF	30(d)	40	50	60
Flow	X			X			M	M	2SP	2SP	2SP	CON
Copper		X			X							2SP
Cadmium		X			X							2SP
Lead		X			X							2SP
Zinc		X			X							2SP
Copper			X		X				2SP	2SP	2SP	
Chromium			X		X					2SP	2SP	
Lead			X		X				2SP	2SP	2SP	
Nickel			X		X					2SP	2SP	
Zinc			X		X				2SP	2SP	2SP	
TTO(Volatiles)			X			X			2SP	2SP	2SP	
TTO(BN/AE)			X		X				2SP	2SP	2SP	
Oil & Grease(c)			X			X			2SP	2SP	2SP	
Phenol			X			X			2SP			
Mercury		X			X		M	M				
Cyanide		X				X	M	M				

M=MONTHLY SAMPLES

2SP=2 SAMPLES TAKEN DURING A SAMPLING PERIOD(SP) IN SEPARATE WEEKS.

CON.= CONTINUOUS FLOW MONITORING.

SAMPLING PERIODS = November-December, January-February, March-April, May-June, July-August, September-October.

NOTES:

- a.
 1. Composite sample is a 24-hour flow proportional composite sample as defined in 40 C.F.R. 403 Appendix E (I).
 2. Grab Sample is an individual sample collected over a period of time not to exceeding 15 minutes and a minimum of 4 grab samples per parameter to characterize a parameter over a 24 hour sampling period The method is described in 40 C.F.R. 403 Appendix E (II).
- b.

WOF - West Outfall
 EOF - East Outfall
 Location 30 - Metal Molding & Casting (Bldg. 19 WWTF)
 Location 40 - Copper Forming (Piercing Mill)
 Location 50 - Main Tube Mill
 Location 60 - Anode Scrubber Transfer
- c.

As an Alternative to monitoring for TTO, Cerro may elect to monitor for oil & grease . Complying with the oil and grease limit shall be considered the equivalent of complying with the TTO limit.
- d.

All parameters regulated at Sample Location 30 shall be analyzed from a grab sample during batch discharges.

INSERT 4

B. Compliance Schedule -- Copper Forming:

a. Piercing Mill (Bldg. 80) - Beginning on September 1, 1990 and within the first ten days of wastewater generating operations conducted at the Piercing Mill, Cerro shall achieve and maintain compliance.

b. Main Tube Mill - As of October 1, 1990 Cerro shall modify the piping which serves the Main Tube Mill to allow for the collection of samples from all processes regulated by 40 C.F.R. Part 468 to be collected from a single sampling point prior to the discharge of those wastewaters into the existing Cerro sewer system.

INSERT 5

C. Compliance Schedule Reporting

a. Piercing Mill (Bldg. 80) - Cerro shall submit the report demonstrating initial compliance with Section 2B of this permit within 45 days after a total of 10 days of wastewater generating operations are conducted at the Piercing Mill. For the purposes of the preceding sentence, no wastewater generating operations will be deemed to have occurred prior to September 1, 1990. Cerro shall demonstrate continuing compliance with the limitations and conditions in Section 2B & 2C during the following two-month sampling periods: November-December, January-February, March-April, May-June, July-August and September-October. If Cerro has not operated the Piercing Mill during a given reporting period, this sampling frequency requirement is waived. If Cerro has only operated the Piercing Mill during one calendar week during a given reporting period, this sampling frequency requirement is waived and in lieu of it Cerro shall sample once during the week in which the Piercing Mill was in operation. The demonstration of continuing compliance requirements of this paragraph shall commence no later than the first reporting period following the submission of the report demonstrating initial compliance.

b. Main Tube Mill - Cerro shall demonstrate continuing compliance with the limitations and conditions in Section 2B & 2C during the following two-month sampling periods: November-December, January-February, March-April, May-June, July-August and September-October. The requirements of this paragraph shall commence no later than November, 1990.

INSERT 6

B. Compliance Schedule -- Secondary Copper:

As of March 1, 1991, Cerro shall not discharge any process wastewater pollutants from any operation 40 C.F.R. Part 421 and shall comply by recycling and reusing all wastewater flows that are subject to 40 C.F.R. Part 421, except such wastewater from the Anode Furnace Air Pollution Control Scrubber may be transferred to the Metal Molding and Casting ("MMC") portion of the facility in accordance Section 2B.

INSERT 7

C. Compliance Schedule Reporting

Cerro shall submit the report demonstrating initial compliance with Sections 2B by May 1, 1991. Cerro shall demonstrate continued compliance with the limitations and conditions in Section 2B & 2C as it relates to Secondary Copper during the following two-month sampling periods: November-December, January-February, March-April, May-June, July-August and September-October. The requirements of this paragraph shall commence no later than May 1, 1991.